

ABSTRACT

An expandable stent suitable for implantation in a lumen is covered with a biological material. In one embodiment, biological fibers are interwoven to form a stent covering. The fibers are disposed at an angle with respect to the longitudinal axis of the stent so that when the stent is expanded, the angle increases. In another embodiment, a strip of pericardium is helically wound around a supporting stent while the stent is in a compressed state. When the stent is expanded, the strip unwinds, but maintains full coverage of the stent. Interlocking edges may be formed on the strip of pericardium to maintain full coverage of the stent.

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